

10 Fig

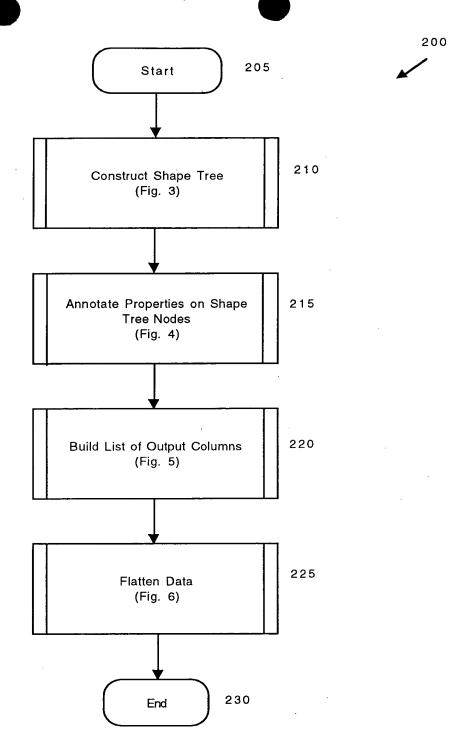


Fig. 2

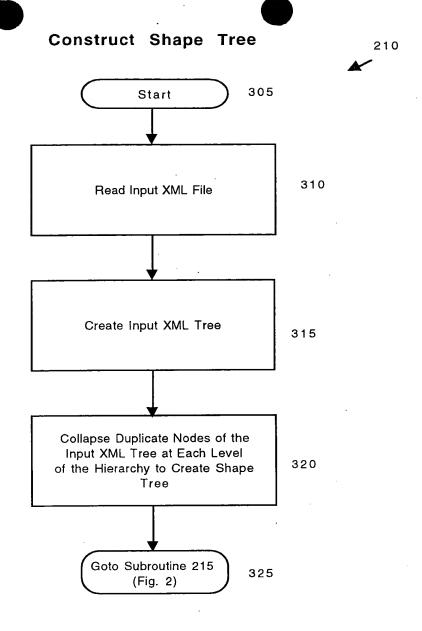
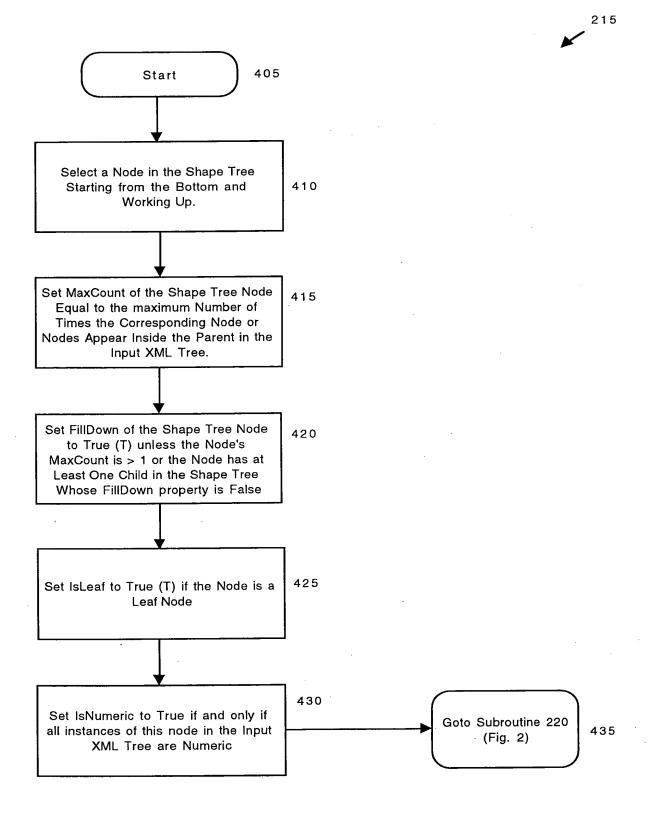


Fig. 3





Fia. 4

## Build List of Output Columns

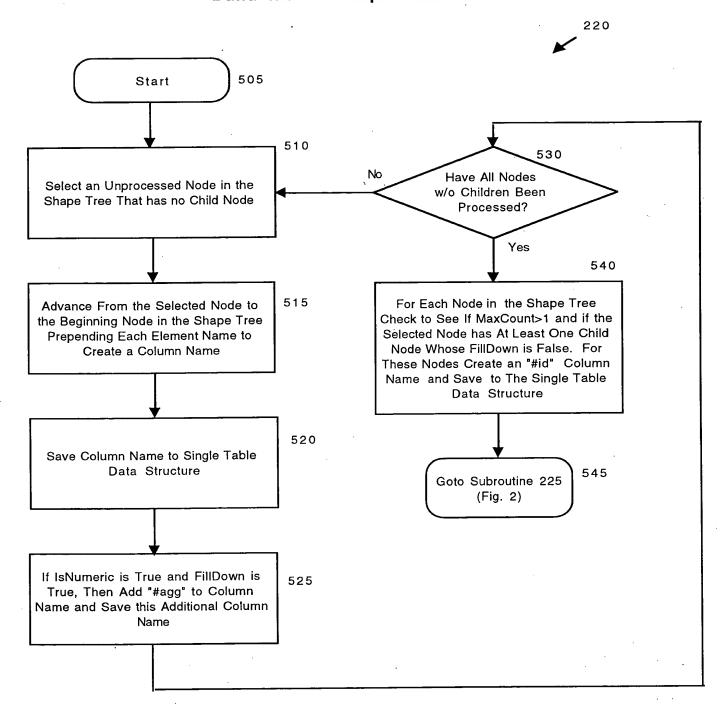


Fig. 5

Flatten

Data

Fig. 6

## Input XML File

<u>137</u>

<a></a>			705
	<b>b1</b>		-710
	<b>b2</b>		715
	<b>b3</b>		720
	<c></c>		-725
		<d>d1</d>	-730
		<d>d2</d>	-735
		<e>e</e>	740
			745
	<f>7.95</f>		-750
	<c></c>	·	-755
		<d>d3</d>	760
			-765
			770

Fig. 7

Input XML Tree

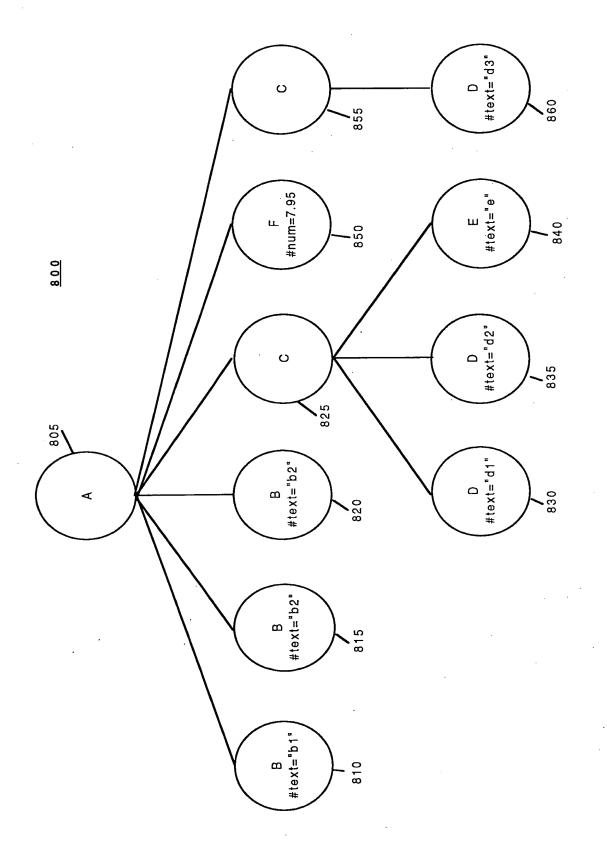


Fig. 8

Shape Tree

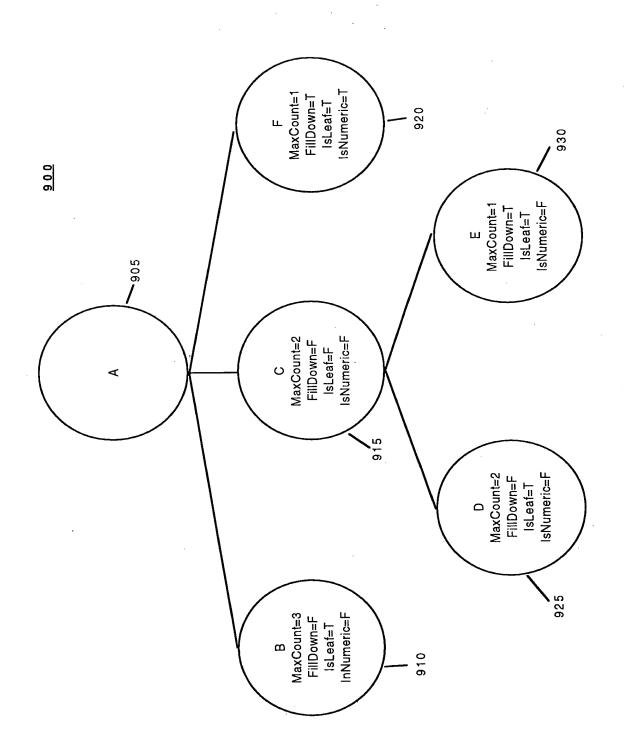


Fig. 9

138

Flat Data Structure

Fig. 10